

10/560723

IAP9 Rec'd PCT/PTO 15 DEC 2009

B0213WO seq.list.ST25.txt  
SEQUENCE LISTING

<110> EXONHIT THERAPEUTICALS

<120> PROSTATE SPECIFIC GENES AND THE USE THEREOF AS TARGETS FOR PROSTATE CANCER  
THERAPY AND DIAGNOSIS

<130> B0213WO

<160> 185

<170> PatentIn version 3.1

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<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 124

<212> DNA

<213> Homo sapiens

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<211> 132

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<213> Homo sapiens

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&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 17

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&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

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&lt;210&gt; 19

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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gccgaggaag aacagctctc ctcttttgc caaaggctgc caaggtgtca aggcttgaga 180  
aagagtggtg gccta 195

<210> 20

<211> 346

<212> DNA

<213> Homo sapiens

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<211> 168

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 258

<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 223

<212> DNA

<213> Homo sapiens

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tacagtgcct tctagctgtg gtatctgtg tctccaagga ccaacccttc catttctgag 180  
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<212> DNA

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<210> 32

<211> 179

<212> DNA

<213> Homo sapiens

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<211> 484

<212> DNA

<213> Homo sapiens

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B0213WO seq list.ST25.txt

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 408

<212> DNA

<213> Homo sapiens

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cgattgttac atcagaaagt gccgtgggaa gaagagccgt gtgctggtaa acatgtccgc 240  
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<210> 41

<211> 314

<212> DNA

<213> Homo sapiens

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ttggtctgaa tgactggat gatgatgaga tcctagcttc ggtgctggca gtgtcccaac 180  
aggaataacct agacagtatg aaaaaaaca aagtgcacag agacccgccc ccagacaaga 240  
gttgatggag acccagggat tggacaccat ctcccaaccc cagtaactcct gctctccggt 300

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314

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<211> 352

<212> DNA

<213> Homo sapiens

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ggcccgatg tcagctccat gctcaatgag cagccgcacg atctccctcac tgttcacaca  
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240  
300  
352

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<211> 292

<212> DNA

<213> Homo sapiens

<400> 43

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<400> 44

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ctacgttatt actgggtttt gctctccaat ttcccttattt tcccttgctc ccaaccacat 300  
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<211> 158

<212> DNA

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aagtggcaat gaggacacct gcaggagggg ctagcctt 158

<210> 46

<211> 157

<212> DNA

<213> Homo sapiens

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<210> 47

<211> 310

<212> DNA

<213> Homo sapiens

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B0213WO seq list.ST25.txt

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<210> 48

<211> 124

<212> DNA

<213> Homo sapiens

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<211> 191

<212> DNA

<213> Homo sapiens

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<210> 50

<211> 305

<212> DNA

<213> Homo sapiens

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gctcg 305

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<212> DNA  
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<210> 52  
<211> 439  
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<210> 53  
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gaaagcctca ctctccagcc tcaggaccaa cttacacacc tgctagaaag cctcactctc		180
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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<210> 56

<211> 202

<212> DNA

<213> Homo sapiens

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<211> 314

<212> DNA

<213> Homo sapiens

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<210> 58

<211> 92

<212> DNA

<213> Homo sapiens

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<210> 59

<211> 179

<212> DNA

<213> Homo sapiens

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<210> 60

<211> 89

B0213WO seq list.ST25.txt

<212> DNA

<213> Homo sapiens

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<211> 169

<212> DNA

<213> Homo sapiens

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<210> 62

<211> 171

<212> DNA

<213> Homo sapiens

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<210> 63

<211> 140

<212> DNA

<213> Homo sapiens

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catttgct gtcacttccc

&lt;210&gt; 64

&lt;211&gt; 195

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 65

&lt;211&gt; 397

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 66

&lt;211&gt; 2799

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<212> DNA  
<213> Homo sapiens

<400> 67

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<210> 68

<211> 2306

<212> DNA

<213> Homo sapiens

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<213>	Homo sapiens					
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cctggcggcg	aatgccatcc	ccaaaggctt	catggacggg	aaggcaggcct	gcattctcat	180
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ccgcgtgagg	gcaagcgccg	ctatattttc	gcggaaagcc	cgttcgtccg	cgcgtgtcca	180
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ggcgcgagct	tcgatctgcc	gttcaatgat	gccgagatga	cggcttgtct	cgagaagtgc	300
attttccatg	cgcaggagta	aggccgattt	aggcgtgagc	gacatcagaa	tgccctccat	360
ggcctgaccc	ataacgcttc	tcaatcacta	gtgcggccgc	ctgcaggtcg	accatatggg	420
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B0213WO seq list.ST25.txt

<210> 109

<211> 437

<212> DNA

<213> Homo sapiens

<400> 109

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catcttaata atccccatccc tatctaataat taggcacaat tcttagctgg ccccatgatc 180  
tccaatcctt ggtgttacat cctgtataat attcttcct tgagtgtggg tgggacctgt 240  
gacttgcttc tagttgagat tatctacatt acataaggct ccattttgga gtaagagatt 300  
tctctgctgg ccctgaagta gcagctatgt tgtgaacagc caatggagaa agccatatgg 360  
cagagacctg caacagaagg tggacctgaa ggtggcctct ggtcaccagc aacagcccc 420  
aggaaatgaa ttctgcc 437

<210> 110

<211> 244

<212> DNA

<213> Homo sapiens

<400> 110

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tccaagggtgt cttagcgggt attccaaaga agtttgtctc ctggaggtt aacggttctc 180  
cgtaacgac gatcccgtac ttccggtag ttccaccgac atcaagcgag ataacctccc 240  
caga 244

<210> 111

<211> 272

<212> DNA

<213> Homo sapiens

<400> 111

B0213WO seq list.ST25.txt  
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agaagtacag caccatgtg gcaagtcggg agtagcacca atgcccgtga agaatcaaga 180  
gcctctccag gtatcggaat ttcggcactg caaagtgcgt ggccatcaact gccttcaaag 240  
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<210> 112

<211> 413

<212> DNA

<213> Homo sapiens

<400> 112  
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taggtttaac tcggagttag aattctggtt ttgtttctca cttagggaaa aaaaatagct 180  
ttgtaaaggg aggttactaa ataaaacttt gagaactcta ttcaccctca caggatgact 240  
tttggctgc aattcaatcc ctggcagggtt actgttcatg tatagaattt ccaggcgact 300  
agaaggcatt tgaaaggaat tcttaccgaa cattaacctg ccttggtaac cacagaaggc 360  
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<210> 113

<211> 541

<212> DNA

<213> Homo sapiens

<400> 113  
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ttgttggaga cttgcactt gtactccttg cggttcagcc agtccctggtg caggacggtg 180  
aggacgctga ccacacggaa cgtgctgttg gactgctcct cccgcggctt tgtcttggca 240  
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cacgtccacc accacgcatt tgacacctcagg ggtccgggag atcatgaggg tgtccttggg 360  
ttttgggggg aagaggaaga actgacggtc cccccaggag ttcaggtgct gggcacggtg 420  
ggcatgtgtg agttttgtca caagatttg gctcaactct cttgtccacc atggtgttgc 480

B0213WO seq list.ST25.txt

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<210> 114

<211> 226

<212> DNA

<213> Homo sapiens

<400> 114  
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aaggggttca aaccccacct cagtaggtgg aggggagcgc ctgccattgg ttgtatTTT 180  
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<210> 115

<211> 439

<212> DNA

<213> Homo sapiens

<400> 115  
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tatggctctt ttttattgtt gagttttat tattacaaaa tcaatttaaa caaataaaag 180  
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agcagttgc cgttatggat aaaggtaaat acttcagcac taaaggtact aaaagtcgtc 300  
agtccgcccc aaaaaccagt tatgacaaac aacctgacat tggagacaa gtcgctgcac 360  
ataacgcttc tcaatcacta gtgcggccgc ctgcaggtcg accatatgg agagctccca 420  
acgcgttggaa tgcatagct 439

<210> 116

<211> 175

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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aactaggttt ccctactcac ttccctaaaa agagtatgt aggtccacgt gtacc 175

<210> 117

<211> 521

<212> DNA

<213> Homo sapiens

<400> 117  
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ggaaggagct tcaggtgagc actgctcatg tgtggatgcc cctgcaacag gcttcctgt 180  
ctgttagagcc aggggtgcaa gtgccatcca cacttgcagt gaatggcttt tccttttagg 240  
tttaagtcct gtctgtctgt aaggcgtaga atctgtccgt ctgttaaggcg tagaatgagg 300  
gttgttaatc catcacaagc aaaaggtcag aacagttaaa cactgccttt cctcctcctc 360  
ttatTTTatg ataaaagcaa atgtggcatt ctcagtatca ttcgattgct atttgagact 420  
tttaaattaa ggtaaaggct gctgggttg gtacctgtgg attttctat actgatgttt 480  
tcgtttgcc aataaatga gtattacatt ggcctctcgt a 521

<210> 118

<211> 131

<212> DNA

<213> Homo sapiens

<400> 118  
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ctggctccgt ttctggtgct tctgaaagtc tctgctcagc acagggaaaga actaacacgaa 120  
ctaacctagg c 131

<210> 119

<211> 212

<212> DNA

B0213WO seq list.ST25.txt

<213> Homo sapiens

<400> 119  
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gcccagctga tccacgacag gaacaccgcg tccccacaccg cggcggcagc caggaccaa 180  
gcgcgccta cgccagacaa ggtgcagatg ac 212

<210> 120

<211> 137

<212> DNA

<213> Homo sapiens

<400> 120  
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aggcaatcca cccaaacc 137

<210> 121

<211> 265

<212> DNA

<213> Homo sapiens

<400> 121  
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aaaatgtgtt cttaaatgc aatactatct cgaggcagtt taaattctaa caataggagc 180  
ctacatacca gatggcttg aaatattac aggtcctctt tgccctgaatt ttttagttatc 240  
caggaacaac cattataact tatac 265

<210> 122

<211> 285

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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atgcttggaa ctggatggaa agactttgga gcagctgtgg ggggtggggg gacaccgaca 180  
acccaaacaga cgtctggct ccagtcctgt ttttactttc aaaaaccaac aagcccgaca 240  
gtggagcctg tccccctcccg ggagggtgct catggcccca ctcac 285

<210> 123

<211> 269

<212> DNA

<213> Homo sapiens

<400> 123  
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gaggagatga ctctaattgt tcaatatatatt tcatggtaact taatttatgt ggcggggata 180  
acgcttctca atcacttagtg cggccgcctg caggtcgacc atatggaga gctcccaacg 240  
cgttggatgc atagctttag tattctata 269

<210> 124

<211> 203

<212> DNA

<213> Homo sapiens

<400> 124  
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ccagcagtgt gtgttctcca aagaccacag acaggcgctt gaagggcaca ttcatgccgc 120  
ggtgccggccg gaaaccgcag gctgtgtca ccagctcaga gatggcactg gctgcctgct 180  
catcattctc caggtccacc cga 203

<210> 125

<211> 239

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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tcccgggagc tgcgagcatt caggtacgtg aggttagcggt cggggcattt ttccacgcag 180  
atctggggag cgggacattg gaattccagc agaaccaggg ggctggcaca tttcacaat 239

<210> 126

<211> 461

<212> DNA

<213> Homo sapiens

<400> 126  
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actcgcttag aggctttct cgacagcaca ggatcaccac catcaccaca aacgtggcta 360  
cgcatcacgc ctcccttgca taacgcttct caatcaactag tgccggccgccc tgcaggtcga 420  
ccatatggga gagctcccaa cgcgttggat gcatagcttg a 461

<210> 127

<211> 284

<212> DNA

<213> Homo sapiens

<400> 127  
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agtgcctca gctggaactg tttacgggac agaagacgta catgcttcag gaagacatcc 180  
aggtcggtac cataacgctt ctaatcaacta gtgcggccgc ctgcaggtcgt accatatggg 240  
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<210> 128

B0213WO seq list.ST25.txt

<211> 252

<212> DNA

<213> Homo sapiens

<400> 128

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atatcaacat ccacaatgac cgtaacccac aatagttcag tgacatctgc tgcttcatca 180  
gtaacaatca caacaactat gcattctgaa gcaaagaaaag gatcaaatt tgatactggg 240  
agctttgttg gt 252

<210> 129

<211> 382

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (380)..(380)

<223> n = a t c or g

<400> 129

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gcagcataaa gcccagttgc tttggaaat gtttgggacc agatggattt ttgggagtag 180  
ggtacaatac agtctggtct cctccagctc cttcttctg caacatgggg aagaacaaac 240  
tccttcatcc aagtctggtt cttctcctct tggtcctcct cgctataacg cttctcaatc 300  
actagtgcgg cccgcctgcag gtcgaccata tgggagagct cccaacgcgt tggatgcata 360  
gctttagtat tctatagtgtn tc 382

<210> 130

<211> 305

<212> DNA

B0213WO seq list.ST25.txt

<213> Homo sapiens

<400> 130  
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cgaggaaattt cccagaggc ttcgccttgtt gccacagctt ttccagcctg gggcatcca 180  
gcccgcttc ctgggtgcca ctgagagagt tgctggcac ctgcccagcg tccttcttc 240  
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cccccc 305

<210> 131

<211> 337

<212> DNA

<213> Homo sapiens

<400> 131  
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gacagccagc tctcatttaa gaatctcaga acttggagg aaggaggaaa tccacattaa 180  
attctagggc ccaacagaca gagtgccttc attgccaccc ccagtagtgg ggactacagt 240  
gcacctgttag tcccagtaga tgctctgaca tcacagagct tcctgctcta ccagccacc 300  
tcatgcatgt caccaccata actatagcct gcaagtc 337

<210> 132

<211> 174

<212> DNA

<213> Homo sapiens

<400> 132  
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aagagactaa acaagaaaagt ggatcaggga agaagaaaagc ttcatcaaag aaacaaaaga 120  
cagaaaatgt cttcgtagat gaaccctta ttctgcaac tacttatatt cctc 174

<210> 133

<211> 113

B0213WO seq list.ST25.txt

<212> DNA

<213> Homo sapiens

<400> 133  
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<210> 134

<211> 191

<212> DNA

<213> Homo sapiens

<400> 134  
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ctagaatgaa ccagtcttac tatgtatcta taaccttgcc tttatctcta ttctaataatg 180  
gtaatctgtt a 191

<210> 135

<211> 1481

<212> DNA

<213> Homo sapiens

<400> 135  
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gaggatggtg tggaaacggc tggcgcgct ggtgatgttc cctctacaga tgatctatct 180  
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gaacgtcctc atcaccggcg gcgggagagg catcgccgt cagctcgccc gcgagttcgc 300  
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gacggaggag atccggcaga tgggcactga gtgccattac ttcatctgtg atgtgggcaa 420  
ccgggaggag gtgtaccaga cggccaaggc cgtccgggag aagggtggtg acatcaccat 480  
cctggtgaac aatgccgccc tggtccatgg gaagagccctt atggacagtg atgatgatgc 540  
cctcctcaag tcccaacaca tcaacaccctt gggccagttc tggaccacca aggccttcct 600

B0213WO seq list.ST25.txt

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ggagagcctg accctggggc tgctggactg tccgggagtc agcgccacca cagtgctgcc	780
cttccacacc agcaccgaga tgttccaggg catgagagtc aggtttccca acctcttcc	840
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cagcctcagc agtgtgcata gaccatttcc aggagggtct gtcccccagat gctctgcctc	1380
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<210> 136

<211> 344

<212> DNA

<213> Homo sapiens

<400> 136 gggttttt taattcctgt attgctggc ccggggagtt tcgccccctg cccggctccg	60
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tctatctggt ggtgaaagca gccgtcggac tggtgctgcc cgccaagctg cgggacctgt	180
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agttcgcgga gcgcggcgcc agaatgattt ttctctgggg ccggactgagaa aatgcctga	300
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<210> 137

<211> 1088

<212> DNA

<213> Homo sapiens

B0213WO seq list.ST25.txt

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gcgagttcgc ggagcgcggc gccagaaaga ttgttctctg gggccggact gagaaatgcc 180  
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atgtggcaa ccgggaggag gtgtaccaga cggccaaggc cgtccggag aaggtgggtg 300  
acatcaccat cctggtaaac aatgccggc tggccatgg gaagagccta atggacagtg 360  
atgatgatgc ctcctcaag tcccaacaca tcaacaccct gggccagttc tggaccacca 420  
aggccttcct gccgcgtatg ctggagctgc agaatggcca catcggtgc ctcaactccg 480  
tgctggcact gtctgccatc cccgggtccca tcgactactg cacatccaaa gcgtcagcct 540  
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cagtgtgcc cttccacacc agcaccgaga tggccaggg catgagagtc aggtttccca 660  
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tacttccaca ggctgcactc gaggagatcc acaaatttc aggaacctac acctgcattga 840  
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tggggccac agcacctggg cacacacccg agcacctgtc cattggcatg cttctgctgg 960  
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aagccacc 1088

<210> 138

<211> 399

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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&lt;211&gt; 698

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<213> Homo sapiens

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<211> 219

<212> DNA

<213> Homo sapiens

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<211> 351

<212> DNA

<213> Homo sapiens

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<211> 424

<212> DNA

<213> Homo sapiens

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<211> 396

<212> DNA

<213> Homo sapiens

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<211> 161

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<213> Homo sapiens

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<213> Homo sapiens

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&lt;211&gt; 239

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 162

&lt;211&gt; 410

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<210> 166

<211> 4839

<212> DNA

<213> Homo sapiens

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<211> 355

<212> DNA

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<211> 579

<212> DNA

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Page 105

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<210> 174

<211> 462

<212> PRT

<213> Homo sapiens

<400> 174

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20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
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Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
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Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu  
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala  
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn  
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu  
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr  
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln  
290 295 300

Leu Gly Leu Leu Ser Phe Phe Ala Met Val His Val Ala Tyr Ser  
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met  
325 330 335

B0213WO seq list.ST25.txt

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu  
340 345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu  
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn  
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr  
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys  
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe  
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu  
435 440 445

Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser  
450 455 460

<210> 175

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 175  
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tttgccaaat ccttgaccat tcgacttatt agatgcggct atcatgtgg cataggaagt 120  
agaaaatccta agtttgcttc tgaattttt cctcatgtgg tagatgtcac tcacatcatgaa  
gatgctctca caaaaacaaa tataatattt gttgtatac acagagaaca ttataacctcc 180  
ctgtgggacc tgagacatct gcttgtgggt aaaatcctga ttgatgtgag caataacatg  
aggataaacc agtacccaga atccaatgct gaatatttgg cttcatttatt cccagattct 240  
ttgattgtca aaggatttaa tgttgtctca gcttggcac ttcagttagg acctaaggat  
gccagccggc aggttatata atgcagcaac aatattcaag cgcgacaaca ggttattgaa 300  
360  
420  
480  
540

B0213W0 seq list.ST25.txt

cttgcggcc agttgaattt cattccatt gactggat ccttatcatc agccagagag	600
attgaaaatt taccctacg actcttact ctctggagag ggccagtgggt ggtagctata	660
agcttggcca cattttttt ccttattcc tttgtcagag atgtgattca tccatatgct	720
agaaaccaac agagtgactt ttacaaaatt cctatagaga ttgtgaataa aacttacct	780
atagttgcca ttactttgct ctccctagta tacctcgac gtcttctggc agctgcttat	840
caactttatt acggcaccaa gtataggaga tttccaccc ggtagaaac ctggttacag	900
tgtagaaaac agcttggatt actaagttt ttcttcgcta tggccatgt tgcctacagc	960
ctctgcttac cgatgagaag gtcagagaga tatttgttc tcaacatggc ttatcagcag	1020
gttcatgaa atattgaaaa ctcttggaat gaggaagaag tttggagaat tgaaatgtat	1080
atctccttg gcataatgag ccttggctta cttccctcc tggcagtcac ttctatccct	1140
tcagtgagca atgcttaaa ctggagagaa ttcagttta ttcagatctt ttgcagctt	1200
gcagataccc agactgagct ggaactggaa tttgtctcc tattgactct acttctttaa	1260
aagcggctgc ccattacatt cctcagctgt cttgcagtt aggtgtacat gtgactgagt	1320
gttggccag	1329

<210> 176

<211> 419

<212> PRT

<213> Homo sapiens

<400> 176

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
 1 5 10 15

Phe Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
 20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
 35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
 50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
 65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
 85 90 95

B0213WO seq list.ST25.txt

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Asp Asn Leu Pro Leu Arg Leu  
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala  
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn  
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu  
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr  
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln  
290 295 300

Leu Gly Leu Leu Ser Phe Phe Ala Met Val His Val Ala Tyr Ser  
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met  
325 330 335

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu

B0213WO seq list.ST25.txt  
345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu  
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn  
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ile Phe Cys Ser Phe  
385 390 395 400

Ala Asp Thr Gln Thr Glu Leu Glu Leu Glu Phe Val Phe Leu Leu Thr  
405 410 . . . 415

Leu Leu Leu

<210> 177

<211> 940

<212> DNA

<213> Homo sapiens

<400> 177 tggaaagtgtc cgtatcatgg aatcaatctc tatgatggga agccctaaga gccttagtga 60  
aacttggtaa cctaattggca taaatggtat caaagatgca aggaaggta ctgttaggtgt 120  
gattggaaagt ggagattttg ccaaattcctt gaccattcga cttattagat gcggctatca 180  
tgtggtcata ggaagtagaa atcctaagtt tgcttctgaa ttttttcctc atgtggtaga 240  
tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggtg ctatacacag 300  
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga 360  
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggcttc 420  
attattccca gattcttga ttgtcaaagg atttaatgtt gtctcagctt gggcacttca 480  
gtttaggacct aaggatgcca gccggcaggt ttatatatgc agcaacaata ttcaagcgcg 540  
acaacaggtt catgcaaata ttgaaaactc ttggaatgag gaagaagttt ggagaattga 600  
aatgtatatac tcctttggca taatgagcct tggcttactt tccctcctgg cagtcacttc 660  
tatcccttca gtgagcaatg ctttaaactg gagagaattc agttttattc agtctacact 720  
tggatatgtc gctctgctca taagtacttt ccatgtttta atttätggat ggaaacgagc 780  
ttttgaggaa gagtactaca gatTTTatac accaccaaac tttgttcttg ctctgtttt 840  
gccctcaatt gtaattctgg tagagacgga gtttcacccgt gtttagccagg atggtctcga 900

B0213WO seq list.ST25.txt

tctcctgacc tcgtgatccg cccgccttgg cctccaaagt 940

<210> 178

<211> 299

<212> PRT

<213> Homo sapiens

<400> 178

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
1 5 10 15

Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu Val Trp  
180 185 190

B0213WO seq list.ST25.txt

Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu  
195 200 205

Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn  
210 215 220

Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu  
225 230 235 240

Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala Phe  
245 250 255

Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe Val Leu Ala  
260 265 270

Leu Val Leu Pro Ser Ile Val Ile Leu Val Glu Thr Glu Phe His Arg  
275 280 285

Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser  
290 295

<210> 179

<211> 1388

<212> DNA

<213> Homo sapiens

<400> 179  
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gattggaagt ggagatttg ccaaattcctt gaccattcga ctatttagat gcggctatca 180  
tgtggcata ggaagtagaa atcctaagtt tgcttctgaa tttttccctc atgtggtaga 240  
tgtcactcat catgaagatg ctctcacaaa aacaaatata atattgttg ctatacacag 300  
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga 360  
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggcttc 420  
attattccca gattcttgc ttgtcaaagg atttaatgtt gtctcagctt gggcacttca 480  
gtttaggacct aaggatgcc accggcaggt ttatataatgc agcaacaata ttcaagcgcg 540  
acaacaggtt attgaacttg cccgccagtt gaatttcatt cccattgact tgggatcctt 600  
atcatcagcc agagagattg aaaatttacc cctacgactc tttactctct ggagagggcc 660  
agtgggtgtc gctataagct tggccacatt tttttccctt attcctttgt cagagatgtg 720

B0213WO seq list.ST25.txt

attcatccat atgctagaaa ccaacagagt gactttaca aaattcctat agagatttg	780
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ctggcagctg cttatcaact ttattacggc accaagtata ggagattcc accttggtg	900
gaaacctggt tacagtgttag aaaacagctt ggattactaa gtttttctt cgctatggtc	960
catgttgcct acagcctctg cttaccgatg agaaggttca tgcaaataatt gaaaactctt	1020
ggaatgagga agaagttgg agaattgaaa tgtatatctc cttggcata atgagccttg	1080
gcttactttc ctcctggca gtcacttcta tcccgtcagt gagcaatgct ttaaactgga	1140
gagaattcag ttttattcag tctacacttg gatatgtcgc tctgctcata agtactttcc	1200
atgtttaat ttatggatgg aaacgagctt ttgaggaaga gtactacaga ttttatacac	1260
caccaaactt tgttcttgct ctttttgc ctcattgt aattctggta gagacggagt	1320
ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc gtgatccgcc cgccttggcc	1380
tccaaagt	1388

<210> 180

<211> 234

<212> PRT

<213> Homo sapiens

<400> 180

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
1 5 10 15

Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
65 70 75 80

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
Page 116

B0213WO seq.list.ST25.txt  
 100                    105                    110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
 115                    120                    125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
 130                    135                    140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
 145                    150                    155                    160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
 165                    170                    175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
 180                    185                    190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu  
 195                    200                    205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
 210                    215                    220

Phe Phe Ser Phe Ile Pro Leu Ser Glu Met  
 225                    230

<210> 181

<211> 1425

<212> DNA

<213> Homo sapiens

<400> 181						
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aacttgttta cctaatggca taaatggtat caaagatgca aggaaggta ctgttagtgt						120
gatttggaaat ggagattttg ccaaattcattt gaccatttcga cttttagat gcggctatca						180
tgtggtcata ggaagttagaa atcctaagtt tgcttcgtaa tttttccctc atgtggtaga						240
tgtcactcat catgaagatg ctctcacaaa aacaaatata atatttggatg ctatacacag						300
agaacattat acctccctgt gggacctgag acatctgctt gtgggtaaaa tcctgattga						360
tgtgagcaat aacatgagga taaaccagta cccagaatcc aatgctgaat atttggcttc						420
attattccca gattctttga ttgtcaaagg atttaatgat gtctcagctt gggcacttca						480
gttaggaccc aaggatgcc a gccggcaggt ttatatatgc agcaacaata ttcaagcg						540

B0213W0 seq list.ST25.txt

acaacagggtt attgaacttg cccgccagtt gaatttcatt cccattgact tgggatcctt	600
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agtgggtgta gctataagct tggccacatt tttttcctt tattccttgc tcagagatgt	720
gattcatcca tatgctagaa accaacagag tgactttac aaaattccta tagagattgt	780
gaataaaaacc ttacctatac ttgcattac tttgctctcc cttagataacc ttgcaggct	840
tctggcagct gcttatcaac tttattatgg caccaagtat aggagattc caccttggtt	900
ggaaacctgg ttacagtgt aaaaacagct tggattacta agtttttct tcgctatgg	960
ccatgttgcc tacagcctct gcttaccgat gagaaggctca gagagatatt tgtttctcaa	1020
catggcttat cagcagggttc atgcaaataat tgaaaactct tgaaatgagg aagaagttt	1080
gagaattgaa atgtatatact ccttggcat aatgagcctt ggcttacttt ccctcctggc	1140
agtcacttct atcccttcag tgagcaatgc tttaaactgg agagaattca gttttattca	1200
gtctacactt ggatatgtcg ctctgctcat aagtacttgc catgtttaa tttatggatg	1260
gaaacgagct tttgaggaag agtactacag atttataca ccaccaaact ttgttcttgc	1320
tcttgttttgc ccctcaatttga taattcttgg aacggagttt caccgtgtta gccaggatgg	1380
tctcgatctc ctgacacctgt gatccgccccg ccttggcctc caaag	1425

<210> 182

<211> 461

<212> PRT

<213> Homo sapiens

<400> 182

Met Glu Ser Ile Ser Met Met Gly Ser Pro Lys Ser Leu Ser Glu Thr  
1 5 10 15

Cys Leu Pro Asn Gly Ile Asn Gly Ile Lys Asp Ala Arg Lys Val Thr  
20 25 30

Val Gly Val Ile Gly Ser Gly Asp Phe Ala Lys Ser Leu Thr Ile Arg  
35 40 45

Leu Ile Arg Cys Gly Tyr His Val Val Ile Gly Ser Arg Asn Pro Lys  
50 55 60

Phe Ala Ser Glu Phe Phe Pro His Val Val Asp Val Thr His His Glu  
65 70 75 80

B0213WO seq list.ST25.txt

Asp Ala Leu Thr Lys Thr Asn Ile Ile Phe Val Ala Ile His Arg Glu  
85 90 95

His Tyr Thr Ser Leu Trp Asp Leu Arg His Leu Leu Val Gly Lys Ile  
100 105 110

Leu Ile Asp Val Ser Asn Asn Met Arg Ile Asn Gln Tyr Pro Glu Ser  
115 120 125

Asn Ala Glu Tyr Leu Ala Ser Leu Phe Pro Asp Ser Leu Ile Val Lys  
130 135 140

Gly Phe Asn Val Val Ser Ala Trp Ala Leu Gln Leu Gly Pro Lys Asp  
145 150 155 160

Ala Ser Arg Gln Val Tyr Ile Cys Ser Asn Asn Ile Gln Ala Arg Gln  
165 170 175

Gln Val Ile Glu Leu Ala Arg Gln Leu Asn Phe Ile Pro Ile Asp Leu  
180 185 190

Gly Ser Leu Ser Ser Ala Arg Glu Ile Glu Asn Leu Pro Leu Arg Leu  
195 200 205

Phe Thr Leu Trp Arg Gly Pro Val Val Val Ala Ile Ser Leu Ala Thr  
210 215 220

Phe Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala  
225 230 235 240

Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val Asn  
245 250 255

Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val Tyr Leu  
260 265 270

Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly Thr Lys Tyr  
275 280 285

Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln Cys Arg Lys Gln  
290 295 300

Leu Gly Leu Leu Ser Phe Phe Ala Met Val His Val Ala Tyr Ser  
305 310 315 320

Leu Cys Leu Pro Met Arg Arg Ser Glu Arg Tyr Leu Phe Leu Asn Met  
325 330 335

B0213WO seq list.ST25.txt

Ala Tyr Gln Gln Val His Ala Asn Ile Glu Asn Ser Trp Asn Glu Glu  
340 345 350

Glu Val Trp Arg Ile Glu Met Tyr Ile Ser Phe Gly Ile Met Ser Leu  
355 360 365

Gly Leu Leu Ser Leu Leu Ala Val Thr Ser Ile Pro Ser Val Ser Asn  
370 375 380

Ala Leu Asn Trp Arg Glu Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr  
385 390 395 400

Val Ala Leu Leu Ile Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys  
405 410 415

Arg Ala Phe Glu Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe  
420 425 430

Val Leu Ala Leu Val Leu Pro Ser Ile Val Ile Leu Glu Thr Glu Phe  
435 440 445

His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr Ser  
450 455 460

<210> 183

<211> 18

<212> PRT

<213> Homo sapiens

<400> 183

Val Glu Thr Glu Phe His Arg Val Ser Gln Asp Gly Leu Asp Leu Leu  
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Thr Ser

<210> 184

<211> 24

<212> PRT

<213> Homo sapiens

B0213WO seq list.ST25.txt

<400> 184

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Val Phe Leu Leu Thr Leu Leu Leu  
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<210> 185

<211> 8

<212> PRT

<213> Homo sapiens

<400> 185

Ser Phe Ile Pro Leu Ser Glu Met  
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